

IETAL	POLE	No.	3	and	4

PROJECT	REFERENCE	NO.				
U-3315						

SHEET NO. SIG. 5.1

MAST ARM LOADING SCHEDULE									
loading symbol		DESC	CRIPTION		AREA	SIZE	WEIGHT		
	12″–5 SE		AL HEAD BACKPLATE, RIG	GID MOUNTED	16.3 S.F.	42.0" W X 56.0" L	103 LBS		
	12″—4 SE		AL HEAD BACKPLATE, RIG	GID MOUNTED	11.5 S.F.	25.5″ W X 66.0″ L	74 LBS		
	12″–3 SE		AL HEAD BACKPLATE, RIG	ID MOUNTED	9.3 S.F.	25.5″ W X 52.5″ L	60 LBS		
STREET NAME SIGN	STR	eet name sig	GN, RIGID MOU	INTED	16.0 S.F.	24.0" W X 96.0" L	36 LBS		
		LUM	INAIRES		1.0 S.F.	N⁄A	25 LBS		
<b>/</b>			NOTES		I	I			
NCE MATERI	AL								
Edition 20 Luminaires, 2 NCDOT "St 2 NCDOT Roa 5 NCDOT Roa 5 fic signal 0 T "Metal P	09 AASH and Tr andard can be dway St projec ole Sta	TO "Standar affic Signa Specificati found in t andard Draw t plans and ndards" loc	d Specifica ls, includi ons for Roa he traffic ings special pr ated at the	n in accorda tions for S <sup>1</sup> ng all of th ds and Struc signal proje ovisions. following N s/ITS-Design	tructura ne lates ctures. ect spec	al Supp st inte " The l cial pr ebsite:	rim revi atest ac ovisions	sions Idenda	S.
hese are a nat will be signal pla all signal per design	nticipa applied ns for supports for the the tip	ted worst c d at the ti the actual s using str mast arm d o or the fr	ase <sup>7</sup> design me of the i loads that ess ratios eflection s	oading cond: loads" and nstallation, will be app that do not hould provid he mast arm	may not The co Lied at exceed de an ap	t repres ontracto the tin 0.9. opearano	sent the or shoul me of th ce of a	e actu .d ref le ins low	ial <sup>1</sup> er to the
type bolte	d mast a	arm-to-pole		may be used onnection me					ıg
: arm attac arm slope a	hment he and defl	eight (H1) ection are	shown is ba not conside	vide 2 inch sed on the f ered in dete	followin	ng desig	gn assum	ptior	
l heads are oadway clea op of the p to the Ele ation grour	e rigidl arance h oole bas evation nd level	y mounted a eight for o e plate is Data Chart and the h	design is as 0.75 feet a for the ele igh point of	ly centered s shown in t above the gr evation diff the roadwa height (H2)	he elev ound el erences y.	ation v evation betwee	riews. en the p	•	
arm attachm us ½ of th ble manufac	e total turer w	height of	ne the tota	or m attachment l height (Hź					10
r as this m or may con	ay affe tact the	ct the mast e Signal De	arm length	contractor r s and arm at n Senior Str	ttachmer	nt heig	hts. The		)
	, respons:	ible for ve	rifying tha ds over the	t the mast a roadway.	arm lenç	gth show	wn will	allow	I
urer so si ith NEC co fixture a t exactly	te spec de 230 2 nd lumi how the required	ific founda 2(E) concer naire arm r fixtures w	tions can b ning servic epresent a ill be moun	l penetratio e designed e equipment load condit: ted. The cor unting fixtu	disconr ion to t ntractor	nect. the pole	e and ma sponsibl	ly not .e for	
he luminai the Radia	re suppo 1 Orien <sup>-</sup>	tation Deta	il for atta	imensions as chment to th light assen	ne signa	al pole	. Design	arm	end for
poles and a		ould be BLA special p		as specifie	ed in th	ie	Kimle NC License	ey≫	Horn
OT Wind	Zone	2 (130	mph)				P.O. Box 33 Raleigh, NC 919) 677-2000	3068 27636	
Prepared For: Nobility and						- + + + + + + + + + + + + + + + + + + +	SEAL	•••• \//	
							00000000000000000000000000000000000000	SEAL	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Signal Design Sect							Boool Harris		
SCALE	<i>er.NC 27529</i> /A		P PENNINGTON EVISIONS	REVIEWED BY:	INIT.	DATE	DocuSigned by: Stacie Phil -0C87A59ED60B43	•	9/2/2014
N / A	_						SIGNATU	RE	DATE 02-0016